

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P199970

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-7030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-SL3-7030-1200-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11068.3 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

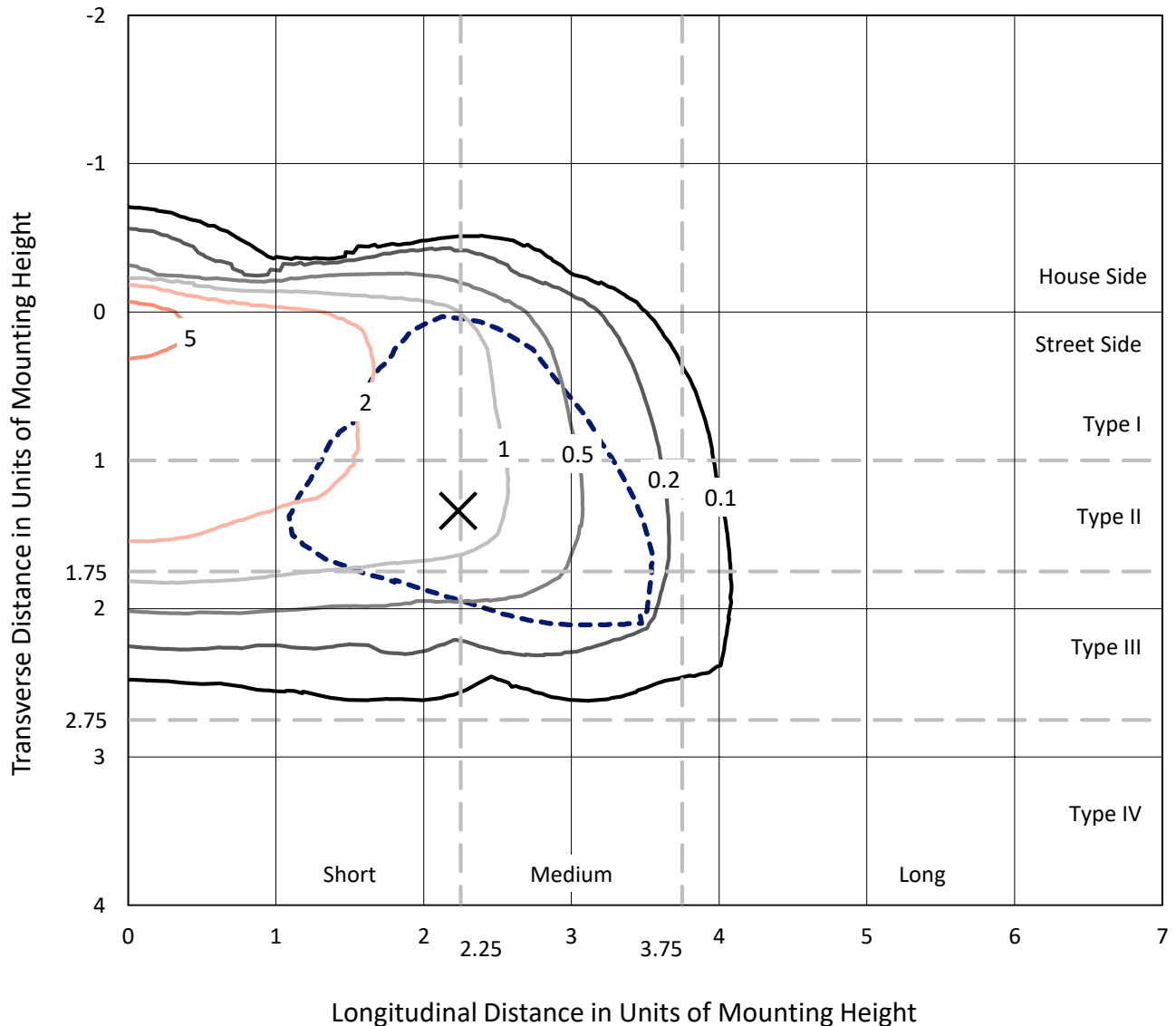


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

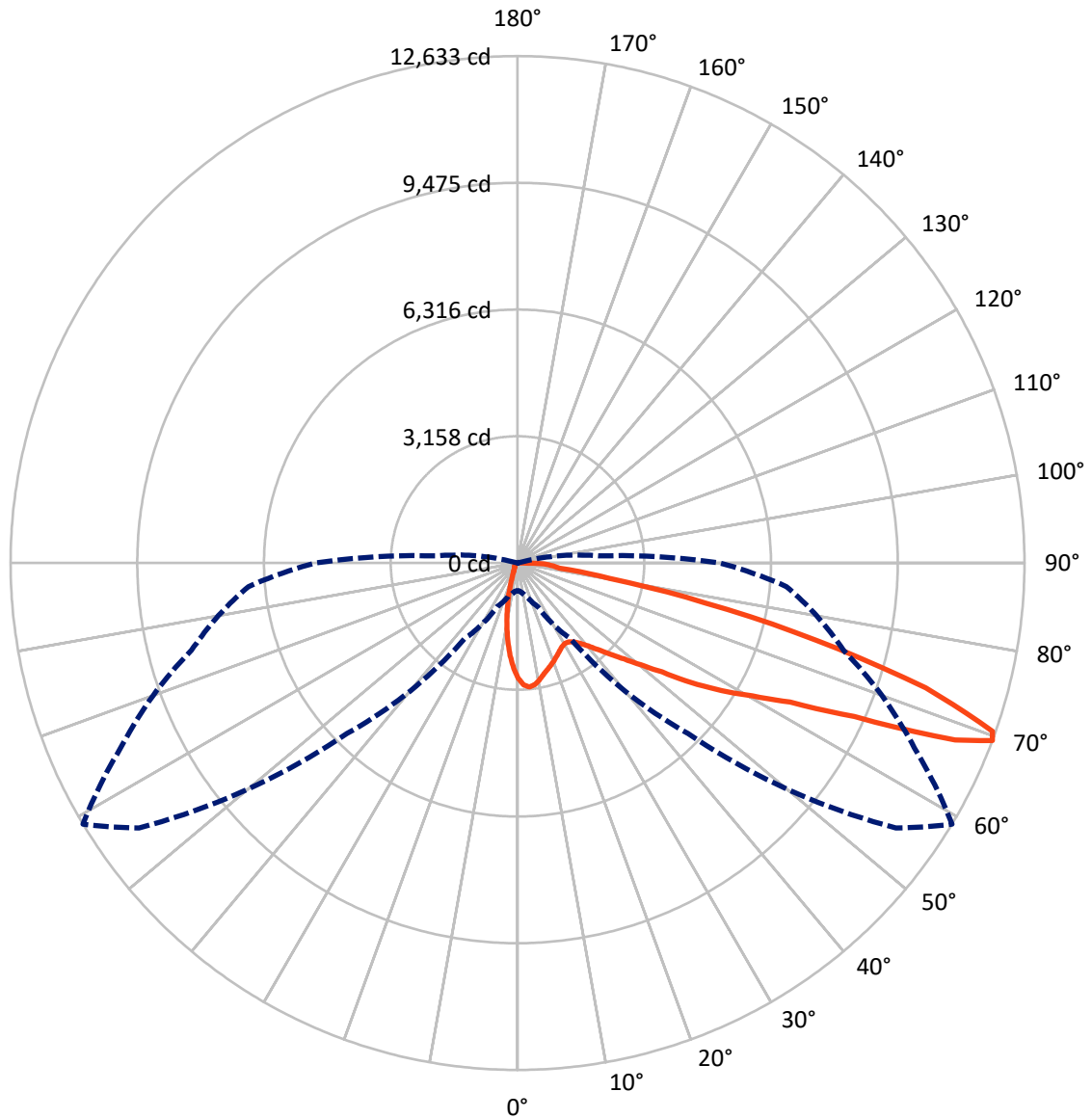


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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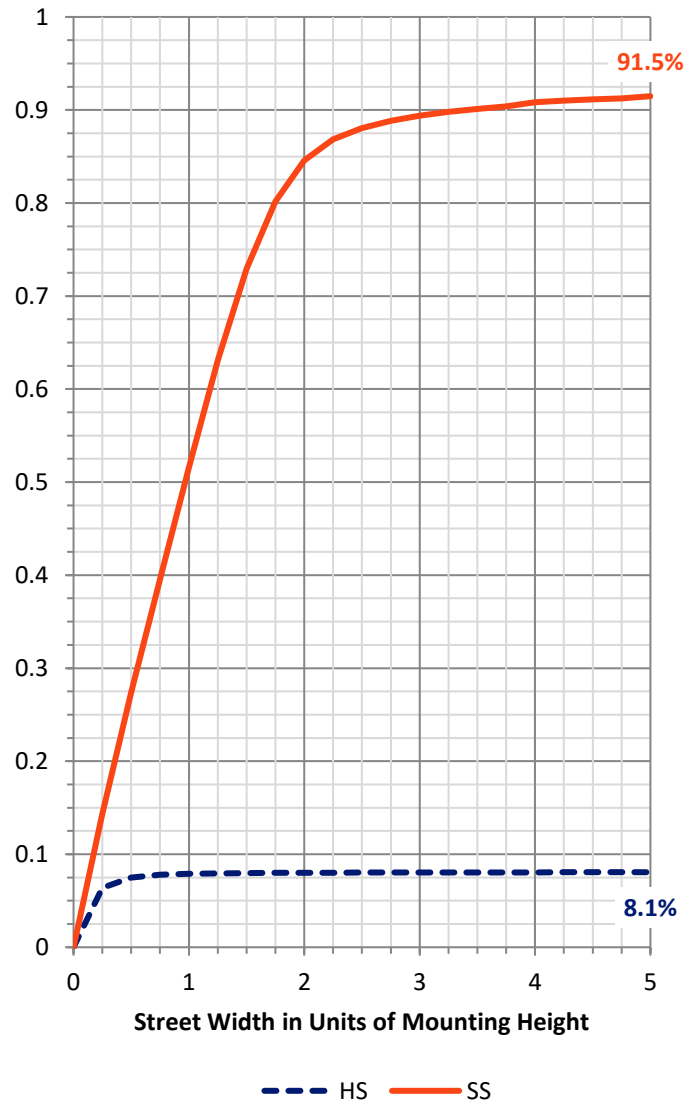
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	901.4	0.0	901.4
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	10167.0	0.0	10167.0
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	11068.3	0.0	11068.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.8	2.1
10°-20°	483.2	4.4
20°-30°	650.2	5.9
30°-40°	944.0	8.5
40°-50°	1571.9	14.2
50°-60°	2452.1	22.2
60°-70°	3034.3	27.4
70°-80°	1537.8	13.9
80°-90°	160.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11068.3	100.0
0°-180°	11068.3	100.0



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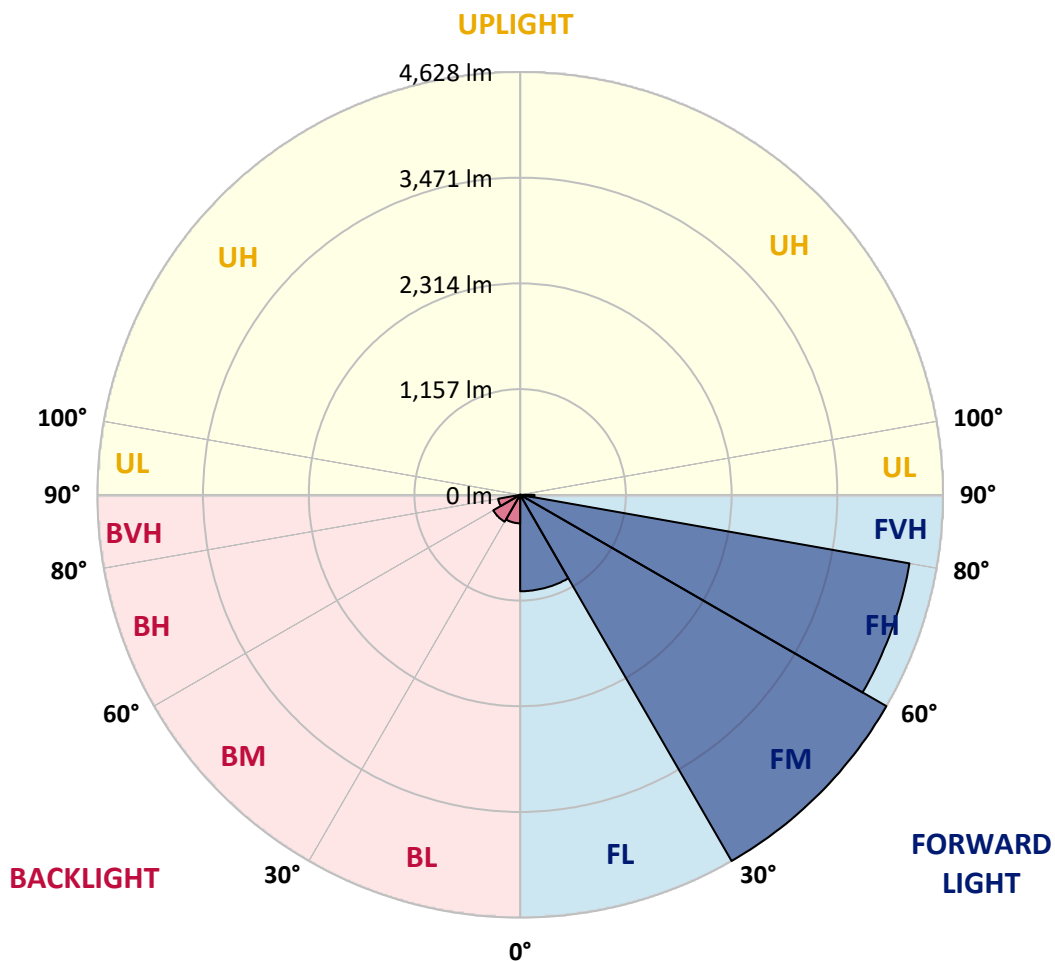
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1055.2	9.5			
FM	(30°-60°)	4628.4	41.8			
FH	(60°-80°)	4327.3	39.1			G2/5000
FVH	(80°-90°)	155.9	1.4			G2/225
BL	(0°-30°)	312.0	2.8	B1/500		
BM	(30°-60°)	339.6	3.1	B1/1000		
BH	(60°-80°)	244.8	2.2	B1/500		G1/500
BVH	(80°-90°)	5.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9
2.5°	3157.6	3156.3	3142.5	3136.3	3125.0	3101.3	3064.3	3044.9	3013.6	2959.2	2885.9
5°	3128.8	3143.8	3152.0	3152.5	3160.7	3152.0	3118.8	3102.5	3059.3	2971.6	2840.3
7.5°	2933.5	2939.1	2962.3	2982.3	3021.2	3058.1	3069.9	3063.0	3037.4	2943.5	2768.9
10°	2724.5	2730.1	2757.7	2783.9	2836.5	2893.4	2953.5	2966.1	2976.7	2903.4	2700.0
12.5°	2544.2	2549.9	2578.0	2612.5	2673.8	2743.8	2837.2	2857.8	2904.7	2865.3	2645.0
15°	2389.0	2391.5	2419.0	2461.6	2534.8	2624.9	2730.7	2763.9	2835.9	2838.3	2596.8
17.5°	2257.0	2263.2	2280.0	2320.8	2400.9	2512.3	2635.6	2683.1	2767.7	2815.8	2549.9
20°	2176.2	2182.4	2181.9	2204.3	2276.3	2395.3	2540.5	2597.4	2700.0	2792.7	2507.9
22.5°	2160.5	2160.5	2144.3	2141.2	2183.7	2283.3	2441.6	2511.1	2639.3	2782.7	2478.5
25°	2216.2	2213.8	2173.1	2139.9	2141.8	2201.2	2345.8	2428.4	2588.0	2789.6	2462.9
27.5°	2334.0	2330.7	2279.5	2216.2	2165.5	2164.9	2273.2	2362.1	2547.4	2822.1	2469.1
30°	2496.7	2495.4	2439.7	2360.2	2268.2	2183.7	2248.1	2328.9	2521.1	2880.9	2483.5
32.5°	2674.4	2672.5	2630.6	2546.7	2430.3	2268.2	2274.5	2342.0	2528.6	2959.2	2518.6
35°	2862.8	2859.6	2841.5	2768.3	2640.0	2424.1	2360.8	2413.4	2576.2	3076.3	2587.4
37.5°	3066.8	3069.9	3083.1	3013.0	2878.4	2642.4	2505.4	2541.0	2671.9	3235.2	2699.5
40°	3367.9	3367.2	3371.6	3279.6	3150.0	2909.8	2707.5	2718.8	2832.1	3446.1	2869.7
42.5°	3914.2	3876.1	3760.3	3572.6	3442.3	3215.1	2962.3	2950.4	3028.0	3707.1	3108.2
45°	4648.4	4567.1	4266.7	3906.7	3740.2	3559.4	3275.8	3237.7	3287.1	4020.7	3402.3
47.5°	5279.9	5195.4	4770.5	4254.7	4056.3	3886.1	3643.3	3574.4	3590.7	4371.8	3775.4
50°	5494.6	5453.3	5082.2	4557.6	4362.4	4297.3	4069.5	3985.6	3962.5	4778.0	4207.8
52.5°	5420.1	5417.0	5169.7	4754.2	4642.8	4722.9	4605.8	4508.9	4423.7	5206.0	4647.8
55°	5300.6	5316.2	5205.5	4926.3	4922.6	5111.6	5339.4	5258.7	5012.1	5671.1	5027.1
57.5°	4970.7	5037.7	5185.4	5251.8	5405.7	5599.1	5950.3	5997.8	5706.1	6027.3	5341.9
60°	4033.1	4180.3	4663.4	5298.7	6028.5	6510.4	6687.5	6728.2	6275.7	6323.3	5766.9
62.5°	2862.8	3013.0	3625.8	4700.4	6037.9	7707.8	7786.0	7626.4	6902.9	6762.0	6499.8
65°	1519.6	1635.4	2136.1	3392.9	5234.8	7985.6	9706.8	9231.1	8009.4	7625.1	7446.8
67.5°	777.3	812.4	1011.5	1660.4	3598.8	7093.1	11428.6	11763.5	9916.5	8481.3	7401.0
69°	687.8	708.5	840.6	1200.5	2304.5	6007.8	11512.5	12632.8	10914.7	8410.0	6725.7
70°	665.9	684.1	804.3	1086.5	1801.3	5038.4	11191.4	12556.5	11170.2	8138.4	6221.3
72.5°	565.2	580.9	716.0	960.1	1464.0	2501.0	9091.0	10640.0	10023.5	6779.6	4503.3
75°	378.1	429.3	687.2	900.0	1361.9	1420.8	5993.4	7689.0	7142.6	4572.7	2345.8
77.5°	90.8	97.6	194.0	716.0	1245.5	1250.5	3082.5	4779.8	3898.6	1629.8	554.5
80°	48.9	46.9	54.5	142.1	1159.8	1173.5	1387.6	2320.1	1392.0	270.3	182.8
82.5°	34.4	32.5	35.0	59.5	364.9	1069.0	1003.9	1050.2	577.1	103.9	82.0
85°	12.6	11.9	19.4	53.8	114.5	614.6	1031.4	866.2	467.5	47.6	60.0
87.5°	4.4	3.8	7.5	29.4	35.0	261.6	636.5	654.6	184.0	28.8	28.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9
2.5°	2855.3	2816.4	2745.1	2671.9	2604.3	2522.9	2482.3	2442.2	2425.3	2419.0	2389.6
5°	2772.6	2707.0	2555.4	2403.3	2263.2	2114.2	2015.9	1937.1	1890.8	1868.2	1832.6
7.5°	2666.9	2559.2	2329.6	2094.9	1876.4	1661.1	1501.4	1378.8	1294.4	1253.7	1216.7
10°	2564.2	2421.0	2094.2	1774.4	1477.7	1192.3	972.0	812.4	710.4	663.5	633.4
12.5°	2472.2	2286.4	1867.0	1462.0	1089.6	755.4	531.3	404.3	341.1	319.2	308.6
15°	2390.2	2162.4	1652.4	1165.4	737.9	431.9	290.4	247.3	237.2	237.2	236.0
17.5°	2312.6	2041.0	1445.2	886.9	463.1	264.1	220.9	215.4	215.4	217.8	217.8
20°	2238.2	1925.2	1244.9	636.5	291.6	209.7	199.7	198.4	199.7	202.8	202.8
22.5°	2174.4	1820.0	1057.7	436.8	216.5	189.0	184.0	182.2	182.8	184.6	185.9
25°	2126.8	1731.2	881.3	296.0	186.5	172.1	166.5	163.4	160.9	160.9	162.1
27.5°	2096.7	1656.1	710.4	215.4	167.8	156.5	147.7	142.7	137.1	133.9	135.2
30°	2074.8	1584.7	550.1	175.8	150.3	139.0	127.7	119.5	111.4	107.6	108.9
32.5°	2066.6	1527.1	411.2	155.2	134.6	122.0	108.3	97.6	88.8	85.7	86.4
35°	2088.5	1481.5	301.1	140.2	122.0	106.4	90.8	78.8	72.0	70.1	70.7
37.5°	2146.1	1457.1	225.3	127.7	110.7	93.2	75.7	64.4	60.0	60.0	60.7
40°	2255.0	1456.4	180.9	118.9	100.7	80.8	62.6	54.5	52.0	53.2	53.8
42.5°	2414.0	1489.6	157.7	110.7	92.0	68.8	52.0	46.3	45.6	46.9	47.6
45°	2631.2	1550.3	145.2	103.9	82.6	57.6	43.8	40.1	40.1	41.9	42.5
47.5°	2897.2	1639.1	134.6	97.0	73.3	48.2	37.6	35.0	35.7	37.6	38.1
50°	3217.7	1751.2	123.9	89.5	66.4	40.1	32.5	30.7	31.3	33.8	34.4
52.5°	3582.6	1902.1	115.1	82.6	57.6	33.2	27.5	26.3	27.5	30.1	30.7
55°	3895.5	2037.2	104.5	77.0	46.3	27.5	22.6	22.6	23.7	27.0	27.5
57.5°	4196.5	2178.7	95.2	66.4	36.3	21.9	18.8	19.4	21.3	24.4	25.0
60°	4638.4	2418.4	83.9	55.7	27.5	17.5	15.7	16.3	18.8	21.9	22.6
62.5°	5388.8	2783.2	72.6	46.3	21.3	13.7	12.6	13.7	16.9	20.6	21.3
65°	6066.0	2931.6	59.5	38.8	16.3	10.6	10.6	12.6	16.3	20.0	20.6
67.5°	5688.6	2467.9	46.3	30.7	12.6	8.2	8.8	11.9	15.7	20.0	20.6
69°	5030.9	2017.9	39.4	24.4	10.6	7.5	8.2	11.9	15.7	19.4	20.0
70°	4518.2	1703.7	35.0	20.6	9.3	7.5	8.2	11.3	15.7	19.4	20.0
72.5°	3026.1	920.1	28.1	15.0	8.8	6.9	6.9	11.3	15.0	18.8	19.4
75°	1300.6	254.1	22.6	10.6	7.5	6.2	6.2	10.6	14.4	18.2	19.4
77.5°	237.8	64.4	18.2	9.3	7.5	6.2	5.6	10.0	13.7	17.5	18.2
80°	94.5	31.9	14.4	8.2	6.9	5.6	5.0	9.3	13.1	16.9	17.5
82.5°	56.9	18.2	11.9	7.5	6.9	5.0	4.4	8.2	12.6	16.3	16.9
85°	46.3	12.6	9.3	7.5	6.2	5.0	3.8	7.5	11.3	15.7	16.3
87.5°	22.6	8.8	8.8	6.9	6.2	5.0	3.8	6.9	10.6	15.0	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)